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DOLLAR VOLUME OF

Agriculture's Transactions

With

Industry



Marketing Research Report No. 375

U.S. DEPARTMENT OF AGRICULTURE

Agricultural Marketing Service

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December 1959

FOREWORD

This report presents basic statistics on the total dollar volume of transactions occurring between and among the agricultural and nonagricultural segments of the American economy.

The data given are based on detailed study and analysis of information obtained from the 1954 Censuses of Agriculture and of Manufactures and from the recently published Survey of Farmers' Expenditures in 1955.

The resulting information on sales and purchases of products between the farm and nonfarm segments of the U. S. economy, and sales and purchases within these major segments, provides the most comprehensive data thus far brought together in this field.

The data presented can be of wide usefulness to the general public, to business and manufacturing firms, and to farmers and agricultural organizations, in contributing to understanding of the truly great dimensions of the interdependence existing between the various parts of our economy.

For agriculture, which is the focus of this study, the information obtained has special significance. The present study provides much hitherto unavailable statistics on the dollar volume of transactions between farmers, as well as between farmers and nonfarmers -- information essential for full analysis of many problems and questions relating to agricultural prices and incomes.

DOLLAR VOLUME OF AGRICULTURE'S TRANSACTIONS WITH INDUSTRY

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NATURE AND PURPOSE

The immediate aim of this study was the development of a set of statistics describing how and to what extent the products of each sector of agriculture move through other agricultural sectors and through each of the major nonagricultural sectors of the economy, on to American consumers and to export markets. This information is essential for understanding the role of agriculture in the total economy. The data provided are also basic tools for research and analysis in questions of agricultural prices, farm income, and marketing.

In addition to the summary tables, the report includes an explanation of the concepts and procedures employed in analyzing the individual commodity group sectors. Copies of the working materials of the various individual sector studies which comprise the report may be obtained on request from the Farm Income Branch, Agricultural Economics Division, Agricultural Marketing Service. These working materials contain detailed tabulations for each agricultural sector, together with notes discussing procedures, methods, sources, and in some instances, concepts, where explanation of these seem desirable to explain fully the treatment of individual sector transactions.

HOW TO READ THE TABLES

The tables are arranged to show the dollar value of purchases by agriculture from and the sales by agriculture to the various other industries and parts of the economy. This arrangement enables one to see at a glance the interdependence existing between agriculture and other sectors, in terms of the economic transactions which have taken place among them.

In Summary Table I -- Flows of Goods and Services Into and Out of Agricultural Sectors, 1955 -- entries in each row, that is, reading across the table, list the dollar value, in producers' prices, of a designated industry's output consumed in 1955 by itself and each of the other industries and sectors shown in the table. The last entry in a row represents the value of the total domestic output of the sector. For illustrative purposes, consider the first row in Summary Table I. This row refers to the meat animals sector, which had a gross output in 1955 of \$9,664 million (last entry in row 1). The first entry in this row (column 1) indicates that the industry itself bought \$1,931 million worth of the total output, largely for feeding and breeding. Continuing along the first row, we see that the "food and kindred products" sector (mostly meat packing and wholesale poultry) was by far the largest purchaser of meat animals, with purchases in 1955 amounting to \$7,143 million. Exports amounted to \$11 million in 1955; and direct purchases by households, consisting

almost entirely of farm slaughtered livestock, which has been either consumed on the farm or sold directly to other consumers, amounted to \$396 million. Other smaller distributions can also be seen as entries in this row, accounting for the remainder of the total output of the sector.

The entries in the four inventory columns may need special explanation. Entries in the "additions" columns are positive. They indicate the value of the gains in inventories in either the producing sector or "other" sectors. In 1955, for example, the positive entry of \$282 million in column 49 indicates that the meat animals sector increased holdings of its own products by that amount. On the other hand, entries shown for depletions are negative. Thus, in column 52 the entry of -89 indicates that all other sectors reduced their holdings of meat animals by \$89 million.

Inventory depletions, which represent output of a previous period, are distributed to the various recipient industries along with current production by the allocations entered in each row. In the same way, competitive imports are added to total supply and are distributed to the using sectors. However, the sum of all allocations, that is, the sum of all the entries in each row, adds to the gross domestic output because of the negative entries in the stock depletions and competitive imports columns.

The foregoing discussion can be applied to all the other rows of Table I.

Now consider the column entries for the meat animals sector. It is seen that the first entry in each row represents shipments of the industries designated in the stub to the meat animals sector. The entries shown for the first column, therefore, are a complete accounting of the purchases of the meat animal sector in 1955, depicting its pattern of purchases for that year.

The first entry in the column is, of course, an intrasector transaction, consisting of purchases of feeding and breeding stock by the sector from itself. Other major purchases by the sector, as indicated by the entries in the first column next to the producing industries designated in the stub are as follows: Feed grains for feeding from the feed crops sector, amounting to \$3,180 million in 1955; \$310 million from the food and kindred products sector (largely prepared and byproduct feeds from the grain mill products and oil mill industries); and services from the margin industries, that is, transportation and wholesale and retail trade services, amounting to \$456 million. The latter purchases reflect for the most part, trade margins on materials bought for production purposes by the meat animals sector. The entry of \$162 million for row 45, "farm nonresidential rents," represents gross rent paid for rented land and service buildings. Costs of maintenance construction (line 49) on owner operator service buildings, amounted to \$96 million in 1955.

Payments to the Federal Government totaled \$25 million in 1955 and to State and local governments, \$221 million. These payments were in the form of excise taxes on purchased materials and services, corporate income taxes, licenses, and so on. The entries on lines 53a, b, and c, reflect wage and salary payments to hired labor, proprietors' net income, and interest payments,

depreciation, and other charges, respectively. Because only the productive activities of the sector are covered the outlays itemized in the first sector number are those incurred in the process of production only, and, therefore, exclude expenditures of farmers and ranchers as consumers.

The patterns of inputs or outlays may similarly be traced by examining the other columns. It can be seen, therefore, that the distribution of a sector's products or services to each of the other sectors may be traced by reading the entries along its row, and its purchases from other industries by reading down its column.

Table II -- Direct Purchases per Million Dollars of Output -- gives essentially the same information that appears in Table I except that it refers to the patterns of purchases of the various agricultural sectors from the "intermediate" or "processing" sectors only (lines 1 through 49). It shows in simple form the per-unit (units of one million dollars) cost structure for each agricultural sector and group of sectors.

The data shown are ratios calculated from Table I. These were generally obtained by dividing all column entries for each agricultural sector in Table I by the respective gross domestic output of that sector and multiplying by one million.

Again, for illustrative purposes, consider column 1 of Table II. The first entry shown in that column indicates that in 1955, for every million dollars of output by the meat animals sector, intrasector purchases amounted to \$199,800. Reading farther down the column we also see that purchases from the feed crops sector totaled \$329,088 per million dollars of output; from the food and kindred products sector, \$32,041; and so on. Each of these entries were derived by simply dividing the amounts shown in the corresponding rows of column 1 in Table I by the total gross domestic output of meat animals (first row, last column of Table I. Thus, to obtain the unit cost of purchases from the feed crops sector we divide the entry in row 7, column 1 of Table I -- \$3,180 million -- by \$9,664 million, the total gross domestic output of the meat animals sector. Other unit cost entries in Table II are similarly computed. Unit costs shown in Table II will not check exactly with those obtained directly from the entries in Table I because they have been computed from original data recorded in thousands of dollars.

Table III -- Current Account Analysis of Purchasing and Marketing, Total Agriculture -- presents the pattern of inputs into and the distribution of outputs from all agricultural sectors combined, in greater detail than is shown in Tables I and II and in terms of both producers' and purchasers' values. Part A -- Summary of Purchasing and Marketing Transactions, 1955 -- gives totals of all inputs and outputs flowing into and out of agriculture, including transfers into and out of agriculture, such as competitive imports and secondary products produced by agriculture. In interindustry accounting, total inputs and total outputs are equal for each industry. This means that in Table I, the row totals for an industry and the column totals are equal. In Part A of Table III a summary reconciliation of this equality is given.

Part B -- Purchasing Transactions -- presents a detailed listing of purchases by agriculture as a whole from the various industries. These are divided into two major groups of purchases -- "Cost of materials, fuel, electricity and contract work," and "Nonmaterial charges." We thus have in Part B the complete pattern of purchases by agriculture in the year 1955 by supplying industry.

Part C -- Marketing Transactions -- presents the complete pattern of distribution of agricultural production by recipient or consuming industry.

CONCEPTS AND PROCEDURES

In general, the conceptual and classification frameworks used in this study are those of the comprehensive 1947 Interindustry Relations Study conducted by the U. S. Bureau of Labor Statistics. Some minor changes relate to the treatment of several commodities and sectors that are more consistent with the general conceptual framework within which the present study was conducted. A complete explanation of the theoretical and conceptual frameworks of the 1947 Study is in Input-Output Analysis, Technical Supplement, Studies in Income and Wealth, Volume 18, National Bureau of Economic Research, 1954, and in the various reports issued by the Bureau of Labor Statistics.

Inasmuch as only the transactions involving agricultural sectors are covered in this study, the usual square array of input coefficients could not be obtained. Such a matrix, of course, would reflect the input-output relationships for all sectors, nonagricultural as well as agricultural. This complete matrix of direct input coefficients could in turn be cast into a linear system of interrelationship functions from which a general solution could be obtained yielding coefficients of both direct and indirect input requirements of the various agricultural sectors per dollar of final product deliveries of agricultural products (final demand) outside the processing system. ^{1/}

Despite the limitation of the scope of the study to agricultural sectors only, however, the basic data developed for each of the agricultural sectors should prove to be helpful for many analytical purposes. Each sector study constitutes a complete current account analysis of the items used in farm production and their importance as well as the uses of farm production for the year 1955. The relationships depicted by these analyses can be compared (where concepts are unchanged) with those of the 1947 Study, and where significant changes have occurred these should prove informative. The 1955 data should also provide a good take-off point for applying current information in order to develop relationships more applicable to current or future periods.

^{1/} For a comprehensive explanation of the analytical framework see W. Duane Evans and Marvin Hoffenberg, The Nature and Uses of Interindustry-Relations Data and Method, Studies in Income and Wealth, Vol. 18, National Bureau of Economic Research, 1955.

SOURCES

In developing the materials presented in the following tables and in the individual sector studies, many sources were drawn upon. These included the Farmers' Expenditures Survey, 1955; the 1954 Census of Manufactures; the whole range of production and disposition reports issued by the Agricultural Estimates Division of the Agricultural Marketing Service; published and unpublished estimates of the Farm Income Branch, Agricultural Marketing Service; unpublished data of several divisions of the Agricultural Research Service; the many reports relating to the 1947 Interindustry Relations Study; the Federal Reserve Bulletins, the Survey of Current Business and its supplements, the Standard Industrial Classification Manuals published by the Bureau of the Budget; and many others.

Despite this seemingly endless supply of source materials, data limitations were many. Estimates for the marketing industries as a whole, for example, were developed by the simple expedient of applying the producers'-purchasers' value ratios (markups) of the 1947 Study to 1955 estimates of producers' and purchasers' values developed in this study.

CLASSIFICATION AND GENERAL CONCEPT

For purposes of this study, the agricultural economy was divided into 17 commodity group sectors, classified on a product basis. In addition, one other sector, agricultural services, was analyzed, since it is closely related to agriculture. The aggregate of all agricultural sectors, however, excludes agricultural services since, strictly speaking, such services are not usually thought of as belonging to the economic entity known as agriculture. On the other hand, farm rental activities of farm landlords, and transactions associated with farm dwellings which are often considered agricultural, were excluded from agriculture and treated as part of the rent sector. This exclusion followed from the treatment of agricultural sectors on a product basis of classification rather than on an establishment basis; that is, agricultural transactions are grouped on the basis of the similarity of products produced and of influences bearing on transactions involving them. This is essentially how they were treated in the 1947 BLS Study.

The basic concept underlying the summaries of transactions in this study is the same as that incorporated in the 1947 BLS Study, namely, that each economic sector's purchases of materials and services from other sectors of the economy are structurally related to that sector's output. On this premise, a systematized analytical framework was developed to portray the pattern of such relationships. The framework adopted in this and the BLS Study consists of the recording of transactions between sectors in terms of the value of the flow of goods or services between such sectors. This study, therefore, is an attempt to depict the pattern of input-output relationships which existed in 1955 between the various agricultural sectors and other nonagricultural sectors in terms of the value of transactions.

TREATMENT OF BYPRODUCTS AND WASTE PRODUCTS

In the summary of transactions presentation, Table I, and in Table II, byproducts and waste products are included with other allocations from the producing sectors to the consuming sectors. Byproduct cake and meal, for example, are shown as inputs into the livestock sectors from the various producing sectors, such as soybean oil mills, cottonseed oil mills, and so on. This treatment was adopted so that the table would completely show in simple form the unit cost structure (in millions of dollars) of each agricultural sector.

For some analytical purposes, it may be necessary to adjust the entries in some cells to exclude waste products and byproducts. This would be true, for example, in analyses involving stipulated output levels for the agricultural sectors, or in a more complete analysis involving stipulated bills of goods applied to a general solution of a complete system of structural equations for the whole economy, that is, for both agricultural and nonagricultural sectors. In such cases, inclusion of waste products and byproducts in output allocations and the resulting input coefficients may lead to production requirements for waste products or byproducts from a sector that may be completely inconsistent with the requirements for the major products of that sector. Thus, unless byproduct cake and meal are excluded from the input coefficients relating oil mills to meat animals, and poultry and eggs, it is possible that a substantial increase in demand for these agricultural commodities will call for production by oil mills far in excess of that called for by the demand for edible oils.

To aid in handling waste products and byproducts in analyses of this type the waste products and byproduct allocations included in Summary Table I are presented in Appendix B by industry of origin and destination. This tabulation will aid the user to reconstruct Table I partially, with waste products and byproducts excluded from the allocations. Since waste products and byproducts are significant in the interpretation of the results of many analyses relating to agricultural inputs and outputs, however, it will still be necessary to account for these items as part of the inputs and outputs. One treatment suggested and used in the 1947 BLS Study is simply to consider the byproduct allocations as intra-industry transfers. This treatment automatically relates waste product and byproduct totals to the total output of a sector in the same proportion as in the base year. With this procedure, byproduct feed requirements for, say, meat animals, for a projected period may be estimated by simply considering the total projected output for the oil mills sectors under the assumed conditions, applying the 1955 proportion of byproduct feeds to total output, and determining whether the supply of such feeds is consistent with the requirements for them. Thus, the entire problem can be treated as a supplementary analysis consistent with the output and input determinations of the analytic model.

TABLE I. FLOW OF GOODS AND SERVICES INTO AND OUT OF AGRICULTURAL SECTORS, BY INDUSTRY OF ORIGIN AND DESTINATION, CONTINENTAL UNITED STATES, 1955
(All figures in millions of dollars)

INDUSTRY PURCHASING

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INDUSTRY PURCHASING

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TABLE I. FLOW OF GOODS AND SERVICES INTO AND OUT OF AGRICULTURAL SECTORS, BY INDUSTRY OF ORIGIN AND DESTINATION, CONTINENTAL UNITED STATES, 1955
(All figures in millions of dollars)

INDUSTRY PURCHASING

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

TABLE II. AGRICULTURAL SECTOR TRANSACTIONS, 1955:
DIRECT PURCHASES PER MILLION DOLLARS OF OUTPUT, CONTINENTAL UNITED STATES 1/

(Dollars)

INDUSTRY PURCHASING

Sector: number: 2/	Item	Meat animals:	Poultry: and eggs	Farm dairy products	Other live- stock and pro- ducts	TOTAL	5	6	7	8	9	10	11	12	13
I	1 Meat animals	199,800				104,859									
	2 Poultry and eggs		1,130			224									
	3 Farm dairy products	13,247				6,952									
	4 Other livestock & prod.				3,301	55									
N	5 TOTAL LIVESTOCK & PROD.	213,047	1,130		3,301	112,090									
	6 Food grains	1,595	16,885		4,185	68,341									
	7 Feed crops	329,088	184,799	505,994	13,320	341,299	21,800	44,936	39,392	44,266	21,297	14,726	6,564	6,985	
D	8 Cotton									4,541	426				
	9 Tobacco														
	10 Oil-bearing crops	416				218						72,000			
U	11 Vegetables	4,035				2,118							20,679		
	12 Fruits														
	13 Tree nuts														
S	14 Legume and grass seeds	1,638		1,392	33	1,232	1,893	8,797	1,909	2,298	2,140	1,555	16	16	
	15 Sugar and sirup crops	427	46			224									
	16 Miscellaneous crops														
	17 Forest products														
T	18 Greenhouse & nurs. prod.												18,728	16,632	13,532
	19 TOTAL CROPS	337,199	201,730	507,386	13,353	349,276	92,034	53,734	45,842	46,990	95,437	55,688	23,211	20,533	
	20 TOTAL AGRICULTURE	550,247	202,860	507,386	16,654	461,367	22,034	53,734	45,842	46,990	95,437	55,688	23,211	20,533	
R	21 Total Meat Animals & Prod.	199,800			3,301	104,914									
	22 Total Food Grains and														
	23 Feed Crops	330,683	201,684	505,994	13,320	345,484	90,140	44,936	39,392	44,266	21,297	14,726	6,564	6,985	
Y	24 Total Vegetables & Fruits	4,035				2,118							20,679		
	25 Total All Other Agri- culture	2,065	46	1,392	33	1,456	1,893	8,797	1,909	2,298	2,140	20,283	16,647	13,548	
	26 Agricultural services		105,182	8,569		23,087	49,598	17,599	99,187	30,127	48,083	16,818	11,898	12,822	
	TOTAL AGRICULTURE INCLUD.	550,247	308,042	515,952	16,654	484,454	141,632	71,332	145,030	77,117	143,520	72,506	35,110	33,355	
	AGRICULTURAL SERVICES														

TABLE II. AGRICULTURAL SECTOR TRANSACTIONS, 1955:
DIRECT PURCHASES PER MILLION DOLLARS OF OUTPUT, CONTINENTAL UNITED STATES 1/
(Dollars)

I N D U S T R Y P U R C H A S I N G

Sector: number:	Item	14	15	16	17	18	19	20	21	22	23	24	25	26
		Legume and grass seeds	Sugar and sirup crops	Miscel- laneous crops	Forest: pro- ducts	Green- house and nursery: pro- ducts	TOTAL CROPS	TOTAL AGRI- CULTURE	Total : Meat : Animals : and : Pro- ducts :	Total : Food : Grains : and : Feed : Crops :	Total : Vege- tables : and : and : Fruits :	Total : All : Other : and : Agri- services :	Agri- cultural : services :	TOTAL AGRI- CULTURE INCLUD.
I	1 Meat animals							49,276	193,687					47,896
	2 Poultry and eggs							105						4,427
	3 Farm dairy products							3,267	12,842					3,176
	4 Other livestock & prod.							26	101					25
N	5 TOTAL LIVESTOCK & PROD							52,674	206,630					55,524
	6 Food grains						7,255	5,813	1,546	14,125				5,650
	7 Feed crops	39,969	38,999	9,532	8,776	15,515	32,692	177,714	319,426	40,154	11,774	18,361		172,737
	8 Cotton						575	305						6,463
D	9 Tobacco						24	13						12
	10 Oil-bearing crops						3,890	2,164	403					2,104
	11 Vegetables						2,249	2,187	3,912		13,199			2,126
U	12 Fruits													
	13 Tree nuts													
	14 Legume and grass seeds	157,040	2,149	20	22	36	5,819	3,663	1,589	7,370	998	17,263		3,561
S	15 Sugar and sirup crops		20,627	6,545			205	109				2,571		106
	16 Miscellaneous crops						16	114	414			200		111
	17 Forest products													
T	18 Greenhouse & nurs. prod.						6,461	3,425						3,329
	19 TOTAL CROPS	197,009	61,775	16,097	18,060	117,997	59,186	195,506	327,291	61,650	43,941	80,981		190,031
R	20 TOTAL AGRICULTURE	197,009	61,775	16,097	18,060	117,997	59,186	195,506	327,291	61,650	43,941	80,981		190,031
	21 Total Meat Animals & Prod.							49,302	193,788					47,921
	22 Total Food Grains and Feed Crops	39,969	38,999	9,532	8,776	15,515	32,692	183,526	320,973	54,279	11,774	18,361		178,387
Y	23 Total Vegetables & Fruits						2,249	2,187	3,912		13,199			2,126
	24 Total All Other Agri- culture	157,040	22,776	6,565	9,284	102,482	12,501	7,310	2,003	7,370	18,968	62,620		7,106
	25 Agricultural services	86,623	55,266	7,139	17,743	4,109	33,746	28,737		24,212	15,039	23,976		27,932
26	TOTAL AGRICULTURE INCLUD. AGRICULTURAL SERVICES ..	283,632	117,041	23,236	35,803	122,106	92,931	276,217	533,920	85,862	58,980	104,958	154,443	273,487

27	Bituminous coal	:	:	:	:	4,377	133	74	:	:	:	1,664:	72
28	Mining of nonmetallic minerals (except fuels) :	301:	2,904:	2,254:	:	10	3,067	1,677	:	133:	4,727:	1,218:	1,630
P 29	Food and kindred products :	6,022:	5,256:	119:	1,395:	2,072	3,721	56,142	31,125:	3,988:	1,621:	2,563:	54,569
30	Textile mill products	:	:	:	:	1,223	1,656	878	:	2,570:	:	465:	1,633
R 31	Finished textile products :	435:	431:	415:	488:	385	1,792	1,158	449:	437:	8,321:	577:	1,126
32	Wood products	:	:	:	:	:	3,625	1,921	:	:	21,273:	:	1,867
O 33	Paper products	:	:	:	:	3,355	102	354	:	:	:	1,276:	754
34	Printing and publishing ...	742:	271:	40:	168:	622	289	254	230:	263:	343:	452:	251
D 35	Chemicals & allied prod. .	26,960:	68,023:	33,875:	354:	3,206	52,798	35,551	21,476:	63,522:	54,228:	19,615	34,924
36	Petroleum products	27,580:	25,627:	5,122:	5,551:	12,753	25,457	16,129	5,465:	31,940:	14,135:	15,160:	16,598
U 37	Rubber products	7,132:	3,644:	751:	786:	1,524	3,218	2,402	1,510:	3,756:	2,072:	2,320:	2,466
38	Stone, clay and glass products	6:	126:	99:	:	8,807	396	482	94:	161:	:	:	472
39	Fabricated metal products :	675:	1,133:	811:	782:	720	1,251	1,729	669:	1,525:	909:	834:	2,076
I 40	Machinery and parts	8,326:	11,369:	2,274:	1,244:	2,651	11,440	7,119	1,983:	15,364:	6,264:	4,919:	7,385
41	Utilities	15,163:	9,380:	64,783:	1,151:	1,945	4,845	4,541	4,141:	4,754:	4,182:	6,224:	5,109
N 42	Margin industries	57,827:	65,047:	21,970:	10,900:	59,914	66,072	61,453	46,074:	82,202:	47,794:	46,370:	61,844
43	Telephone	7,394:	2,231:	534:	1,374:	5,102	2,318	2,140	1,889:	2,415:	2,133	3,634:	2,157
G 44	Finance	24,745:	8,620:	6,229:	1,998:	5,249	10,489	7,933	5,219:	11,497:	5,558	7,089:	8,195
45	Farm nonresidential rents..	48,781:	96,148:	74,631:	8,152:	7,879	82,444	50,698	16,879:	103,619:	22,173	25,524:	49,278
46	Miscellaneous business expenses	6,195:	2,333:	336:	1,385:	18,618	2,842	3,893	4,379:	2,224:	2,824:	8,871:	4,917
47	Repair services	15,615:	23,405:	4,647:	3,296:	5,216	23,619	14,267	3,366:	31,843:	12,832:	10,099:	15,070
48	Nonprofit membership organizations	1,300:	474:	79:	292:	1,090	505	977	403:	459:	600:	791:	950
49	Construction	33,964:	17,041:	2,689:	5,147:	16,163	11,527	10,688	9,856:	11,902:	7,578:	14,077:	10,409
		:	:	:	:	:			:	:	:	:	

1/ See text for Treatment of Byproducts and Waste Products in computing direct coefficients in this table.

2/ See Industry Classification Table attached for I-O industry components of industries identified by sector numbers.

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part A. Summary of Purchasing and Marketing Transactions,
TOTAL AGRICULTURE, 1955

Inputs (Purchasers' value)	In thousands of dollars
<hr/>	
A. Total inputs to primary industry	39,184,877
1. Cost of materials, fuel, electricity, and contract work	17,374,047
2. Nonmaterial charges	21,810,830
a. Purchased services	4,546,254
b. Factor payments and other charges	17,264,576
B. Transfers-in	
1. Competitive imports	935,597
a. Foreign port value	729,654
b. Duty	100,333
c. Ocean freight	90,357
d. Ocean insurance	15,253
C. Gross input	40,120,474
<hr/>	
Outputs (Producers' value)	
<hr/>	
A. Total production by primary industry	39,184,877
1. Primary product shipments	39,129,406
2. Transfers-out (secondary products)	40,623
3. Inventory change--finished products	14,848
B. Transfers-in	935,597
C. Gross output	40,120,474
<hr/>	

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part B. Purchasing Transactions (Inputs)
TOTAL AGRICULTURE, 1955

Industry	Producers' value	Purchasers value
	\$1,000	\$1,000
A. Cost of materials, fuel, electricity, and contract work	17,374,047	17,374,047
1. Cost of materials, parts, containers, and supplies	14,407,417	15,920,159
1.1 Meat animals (I-O 1)	1,930,871	2,005,953
1.2 Poultry and eggs (I-O 2)	4,125	4,125
1.3 Farm dairy products (I-O 3)	128,020	128,020
1.4 Other livestock and products (I-O 4)	1,007	1,157
1.5 Food grains (I-O 5)	227,767	241,568
1.6 Feed crops (I-O 6)	6,963,694	7,153,102
1.7 Cotton (I-O 7)	11,949	17,451
1.8 Tobacco (I-O 8)	491	1,405
1.9 Oil-bearing crops (I-O 9)	84,813	95,601
1.10 Vegetables (I-O 10)	85,709	91,590
1.11 Legume and grass seeds (I-O 13)	143,539	196,278
1.12 Sugar and sirup crops (I-O 14)	4,262	5,493
1.13 Miscellaneous crops (I-O 15)	4,461	4,723
1.14 Greenhouse and nursery (I-O 17)	134,196	146,200
1.15 Agricultural services (I-O 18)	384,051	391,789
a. Hatcheries	384,051	391,789
1.16 Crushed and broken limestone (I-O 1422)	45,451	86,098
1.17 Chemical and fertilizer mineral mining (I-O 1472)	14,932	19,264
1.18 Phosphate rock (I-O 1475)	5,333	9,669
1.19 Flour and meal (I-O 2041)	27,987	37,321
1.20 Prepared animal feeds (I-O 2042)	2,131,682	2,593,918
1.21 Rice cleaning and polishing (I-O 2044)	1,090	1,454
1.22 Cane sugar refining (I-O 2062)	10,547	11,175
1.23 Beet sugar (I-O 2063)	6,334	8,075
1.24 Malt liquors (I-O 2082)	3,163	3,621
1.25 Distilled liquors (I-O 2085)	3,845	5,126
1.26 Corn products (I-O 2094)	15,248	16,613
1.27 Cotton and rayon textiles (I-O 2220)	6,113	6,735
1.28 Jute and cordage (I-O 2297)	28,294	31,506
1.29 Textile bags (I-O 2393)	29,161	30,908
1.30 Canvas products (I-O 2394)	16,228	17,881

Continued -

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part B. Purchasing Transactions (Inputs)
TOTAL AGRICULTURE, 1955

Industry	Producers'	Purchasers'
	value	value
	\$1,000	\$1,000
A-1--Continued		
1.31 Wooden containers (I-O 2440)	74,653	95,638
1.32 Cooperage (I-O 2445)	632	654
1.33 Paper and paperboard mills (I-O 2612)	2,115	2,412
1.34 Paper products (I-O 2640)	11,765	13,420
1.35 Printing and publishing (I-O 2700)	9,938	11,725
1.36 Inorganic chemicals (I-O 2819)	380,446	427,323
1.37 Organic chemicals (I-O 2829)	17,049	26,358
1.38 Drugs and medicines (I-O 2830)	35,543	77,463
1.39 Fertilizers (I-O 2870)	579,801	728,255
1.40 Cottonseed oil mills (I-O 2881)	118,494	140,783
1.41 Linseed oil mills (I-O 2882)	14,210	16,422
1.42 Soybean oil mills (I-O 2883)	54,278	63,491
1.43 Marine animal oils (I-O 2885)	7,929	9,648
1.44 Grease and tallow (I-O 2886)	27,983	33,433
1.45 Insecticides (I-O 2897)	87,652	109,679
1.46 Salt (I-O 2898)	23,034	33,308
1.47 Chemical products, n.e.c. (I-O 2899)	46,653	62,044
1.48 Tires and inner tubes (I-O 3011)	94,102	179,800
1.49 Glass containers (I-O 3221)	10,663	12,851
1.50 Pottery and related products (I-O 3260)	5,552	6,700
1.51 Lime (I-O 3274)	371	1,002
1.52 Minerals, ground or treated (I-O 3295)	2,299	2,559
1.53 Tin cans (I-O 3411)	26,173	32,218
1.54 Wirework, n.e.c. (I-O 3489)	9,577	15,568
1.55 Metal barrels and drums (I-O 3491)	8,799	13,198
1.56 Miscellaneous hardware supplies (I-O 9920)	23,199	30,790
1.57 Tractor parts (I-O 3521)	75,014	121,754
1.58 Other farm machinery parts (I-O 3522)	152,910	198,776
1.59 Motor vehicle replacement parts (I-O 9910)	51,044	87,810
1.60 Foreign trade (noncompetitive imports, foreign port value) (I-O 9100)	1,176	1,258

Continued -

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part B. Purchasing Transactions (Inputs)
TOTAL AGRICULTURE, 1955

Industry	Producers' value	Purchasers value
	<u>\$1,000</u>	<u>\$1,000</u>
A--Continued		
2. Cost of fuels and purchased electric energy	757,906	1,453,888
2.1 Electric light and power (I-O 4911)	122,981	122,981
2.2 Petroleum refining (I-O 2911)	632,021	1,322,331
2.3 Bituminous coal (I-O 1210)	2,904	8,576
3. Contract and commission work	None	
4. Marketing charges on material purchases	2,208,724	
4.1 Railroad transportation (I-O N167)		
4.2 Trucking (I-O N168)		
4.3 Warehousing and storage (I-O N169.1)		
4.4 Other water transportation (I-O N171)		
4.5 Pipeline transportation (I-O N174)		
4.6 Wholesale trade (I-O N175.1)		
4.7 Retail trade (I-O N176)		
4.8 Federal Government (I-O 9010)		
a. Transportation excise tax		
b. Other excise tax		
4.9 State and local government (I-O 9020)		
a. Excise taxes		
B. Nonmaterial charges	21,810,830	21,810,830
1. Purchased services	4,546,254	4,546,254
1.1 Agricultural services (I-O 18)	742,010	742,010
1.2 Railroad transportation (I-O N167) 1/	35,076	35,076
1.3 Trucking (I-O N168) 1/	40,958	40,958
1.4 Stockyards (I-O N169.3) 1/	57,870	57,870
1.5 Air transportation (I-O N173) 1/	17,276	17,276
1.6 Wholesale trade (I-O N175) 1/	48,106	48,106
1.7 Telephone (I-O N191)	83,851	83,851
1.8 Nonlife insurance (I-O N197.1)	298,560	298,560
1.9 Real estate agents, brokers and managers (I-O N198.3)	12,302	12,302
1.10 Farm nonresidential rents (I-O N199.2)	1,986,601	1,986,601
1.11 Advertising (I-O N203)	9,457	9,457
1.12 Auto repair services (I-O N205)	87,807	87,807
1.13 Miscellaneous repair services (I-O N206.4)	471,235	471,235

Continued -

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part B. Purchasing Transactions (Inputs)
TOTAL AGRICULTURE, 1955

Industry	Producers' value \$1,000	Purchasers value \$1,000
B-1--Continued		
1.14 Miscellaneous professional services (I-O N211)	127,104	127,104
1.15 Business associations (I-O N213)	38,298	38,298
1.16 Construction maintenance (I-O N247)	418,813	418,813
1.17 Irrigation system operation (I-O 4971)	54,962	54,962
1.18 Dummy industry (I-O 9913)	15,968	15,968
2. Factor payments and other charges	17,264,576	17,264,576
2.1 Households (I-O 9500)	16,264,321	16,264,321
a. Wages and salaries	2,706,770	2,706,770
b. Proprietors' income	9,855,215	9,855,215
c. All other	3,702,336	3,702,336
2.2 Taxes paid	1,000,255	1,000,255
a. Federal Government (I-O 9010)	128,610	128,610
b. State and local government (I-O 9020)	871,645	871,645

1/ Figures shown for margin industries in this table include marketing charges on material purchases by farmers plus direct purchases by farmers from these sectors.

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part C. Marketing Transactions (Outputs)
TOTAL AGRICULTURE, 1955

Industry	Producers' value	Purchasers' value
	\$1,000	\$1,000
A. Total primary product shipments	40,470,615	44,872,521
1. By primary industry	39,129,406	
2. By others (transfers-in)	935,597	
a. Competitive imports	935,597	
(1) Foreign port value	729,654	
(2) Duty	100,333	
(3) Ocean freight	90,357	
(4) Ocean insurance	15,253	
3. By inventory depletions	405,612	
a. Government	12,921	
b. Wholesale	304,120	
c. Other	88,571	
B. Marketing charges incurred in shipment	4,401,906	
1. Transportation		
a. Railroad		
b. All other		
2. Trade margins		
a. Wholesale		
b. Retail		
3. Excise taxes--Federal transportation		
C. Allocation of primary product shipments to consuming sectors	40,470,615	44,872,521
1. Final demand sectors	9,510,521	12,225,070
a. Exports--recorded	1,836,784	2,132,148
b. Federal Government	54,272	61,313
c. State and local government	8,469	10,273
d. Gross private capital formation	9,899	10,766
e. Inventory increases (outside)	2,096,478	2,184,438
f. Households	5,504,619	7,826,132
2. Intermediate sectors	30,960,094	32,647,451
(1) Meat animals (I-O 1)	5,317,590	5,432,041
(2) Poultry and eggs (I-O 2)	740,701	747,804
(3) Farm dairy products (I-O 3)	2,432,190	2,460,554
(4) Other livestock and products (I-O 4)	5,080	5,278

Continued -

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part C. Marketing Transactions (Outputs)
TOTAL AGRICULTURE, 1955

Industry	Producers' value	Purchasers value
	<u>\$1,000</u>	<u>\$1,000</u>
C-2--Continued		
(5) Food grains (I-O 5)	202,950	219,195
(6) Feed crops (I-O 6)	454,812	610,383
(7) Cotton (I-O 7)	120,624	129,543
(8) Tobacco (I-O 8)	54,102	56,776
(9) Oil-bearing crops (I-O 9)	107,092	112,249
(10) Vegetables (I-O 10)	125,797	138,957
(11) Fruits (I-O 11)	29,712	32,471
(12) Tree nuts (I-O 12)	2,631	2,855
(13) Legume and grass seeds (I-O 13)	35,302	35,458
(14) Sugar and sirup crops (I-O 14)	12,764	14,288
(15) Miscellaneous crops (I-O 15)	814	1,083
(16) Forest products (I-O 16)	8,361	8,945
(17) Greenhouse and nursery products (I-O 17)	74,382	77,787
(18) Agricultural services (I-O 18)	174,355	174,355
(19) Meat packing (I-O 2010)	7,182,702	7,376,212
(20) Poultry, wholesale (I-O 2015)	871,518	974,708
(21) Processed dairy products (I-O 2020)	4,188,841	4,258,378
(22) Cured fish (I-O 2032)	77	85
(23) Canning and preserving foods (I-O 2033)	543,346	553,860
(24) Dehydrated fruits and vegetables (I-O 2034)	32,310	33,318
(25) Pickles and sauces (I-O 2035)	24,794	25,536
(26) Frozen foods (I-O 2037)	186,194	186,569
(27) Flour and meal (I-O 2041)	1,158,974	1,259,981
(28) Prepared animal feeds (I-O 2042)	503,147	593,355
(29) Cereal preparations (I-O 2043)	58,856	66,243
(30) Rice cleaning and polishing (I-O 2044)	198,494	199,596
(31) Bread and other bakery products (I-O 2051)	58,281	73,068
(32) Biscuits, crackers, and pretzels (I-O 2052)	4,922	5,624
(33) Raw cane sugar (I-O 2061)	45,886	49,536
(34) Beet sugar (I-O 2063)	133,302	149,638

Continued -

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part C. Marketing Transactions (Outputs)
TOTAL AGRICULTURE, 1955

Industry	Producers' value	Purchasers value
	<u>\$1,000</u>	<u>\$1,000</u>
C-2--Continued		
(35) Confectionery products (I-O 2071)	89,745	100,544
(36) Chocolate, cocoa products (I-O 2072)	6,412	7,581
(37) Malt liquors (I-O 2082)	43,836	52,492
(38) Malt (I-O 2083)	73,684	82,583
(39) Wines and brandy (I-O 2084)	59,516	59,516
(40) Distilled liquors (I-O 2085)	47,857	54,730
(41) Liquid, frozen and dried eggs (I-O 2090)	121,961	127,809
(42) Shortening and cooking oils (I-O 2092)	29,690	31,954
(43) Corn products (I-O 2094)	189,834	196,729
(44) Flavorings (I-O 2095)	15,306	18,077
(45) Vinegar and cider (I-O 2096)	1,011	1,114
(46) Food preparations, n.e.c. (I-O 2099)	149,137	166,226
(47) Cigarettes (I-O 2111)	25,384	26,996
(48) Chewing and smoking tobacco (I-O 2131)	72	82
(49) Tobacco stemming and redrying (I-O 2141)	836,282	881,910
(50) Woolen and worsted manufactures (I-O 2210)	312,320	351,666
(51) Cotton and rayon textiles (I-O 2220)	1,461,341	1,617,252
(52) Knitting mills (I-O 2250)	9,573	10,569
(53) Wool carpets and rugs (I-O 2271)	142,886	160,555
(54) Paddings and upholstery filling (I-O 2293)	177	196
(55) Jute and cordage (I-O 2297)	2,111	2,319
(56) Textile goods, n.e.c. (I-O 2299)	10,522	11,698
(57) Sawmills and planing mills (I-O 2421)	200,000	200,000
(58) Wood household furniture (I-O 2510)	1,136	1,263
(59) Pulp mills (I-O 2611)	56,000	56,000
(60) Organic chemicals (I-O 2829)	1,860	2,187
(61) Drugs and medicines (I-O 2830)	15,002	16,932
(62) Soaps and related products (I-O 2840)	5,394	6,178
(63) Softwood distillation and gum naval stores (I-O 2862)	10,485	11,966

Continued -

TABLE III. CURRENT ACCOUNT ANALYSIS OF PURCHASING AND MARKETING,
TOTAL AGRICULTURE, 1955

Part C. Marketing Transactions (Outputs)
TOTAL AGRICULTURE, 1955

Industry	Producers' value	Purchasers value
	<u>\$1,000</u>	<u>\$1,000</u>
C-2--Continued		
(64) Natural dyeing and tanning materials (I-O 2865)	495	557
(65) Fertilizers (I-O 2870)	1,359	1,384
(66) Cottonseed oil mills (I-O 2881)	238,441	287,002
(67) Linseed oil mills (I-O 2882)	82,174	86,457
(68) Soybean oil mills (I-O 2883)	597,785	631,336
(69) Vegetable oil mills, n.e.c. (I-O 2884)	67,940	72,640
(70) Essential oils (I-O 2892)	9,818	10,876
(71) Insecticides (I-O 2897)	3,800	4,288
(72) Chemical products, n.e.c. (I-O 2899)	455	513
(73) Leather tanning and finishing (I-O 3111)	21,839	25,890
(74) Brooms and brushes (I-O 3981)	9,523	10,534
(75) Furs, dressed and dried (I-O 3992)	67,083	75,133
(76) Railroads (I-O N167)	1,464	2,175
(77) Ocean transportation (I-O N170)	789	1,160
(78) Air transportation (I-O N173)	157	207
(79) Stockyards (I-O N169.3)	5,961	7,258
(80) Telephone (I-O N191)	1,082	1,590
(81) Telegraph (I-O N192)	50	74
(82) Eating and drinking places (I-O 5810)	508,714	718,905
(83) Hospitals (I-O 8061)	56,879	78,620
(84) Education (I-O 8210)	1,580	2,256
(85) Construction (I-O N244)	205,802	219,285
(86) Undistributed (I-O 9300)	67,467	86,458
D. Products transferred out	40,623	
1 Secondary products	40,623	
a. Dehydrated fruits and vegetables (I-O 2034)	40,623	

APPENDIX A

INDUSTRY CLASSIFICATION TABLE

Tables I and II contain sector identification numbers (row and column industry numbers) which represent broader groupings of industries than those contained in the more detailed analyses for each sector. These broader groupings are made up of several subgroups of industries designated as I-O or Input-Output industry components. The I-O industry numbers used in this study are in general those used in the 1947 Study by the Bureau of Labor Statistics. The tabulation below identifies the row and sector numbers used in Tables I and II in this report with the I-O component industry numbers and industry titles used in Table III and in the 1947 Study by BLS. For example, looking down the stub of the table below, we see that the sector designated as 28 in Tables I and II includes the detailed I-O numbered industries 1422, 1472, and 1475. These in turn are identified by title as "crushed and broken limestone," "chemical and fertilizer mineral mining," and "phosphate rock." In general, the numerical and title designations for detailed individual industries used in this study and the 1947 Study are the same as those used in the Standard Industrial Classification Manual.

Row sector	:	I-O industry components	:	Industry title
1	:		:	Meat animals
	:	1	:	Meat animals
2	:		:	Poultry and eggs
	:	2	:	Poultry and eggs
3	:		:	Farm dairy products
	:	3	:	Farm dairy products
4	:		:	Other livestock and products
	:	4	:	Other livestock and products
5	:		:	Total livestock and products
	:	1	:	Meat animals
	:	2	:	Poultry and eggs
	:	3	:	Farm dairy products
	:	4	:	Other livestock and products
6	:		:	Food grains
	:	5	:	Food grains
7	:		:	Feed crops
	:	6	:	Feed crops
8	:		:	Cotton
	:	7	:	Cotton
9	:		:	Tobacco
	:	8	:	Tobacco
	:		:	

Continued -

INDUSTRY CLASSIFICATION TABLE--Continued

Row sector	:	I-0 industry components	:	Industry title
10	:		:	Oil-bearing crops
	:	9	:	Oil-bearing crops
11	:		:	Vegetables
	:	10	:	Vegetables
12	:		:	Fruits
	:	11	:	Fruits
13	:		:	Tree nuts
	:	12	:	Tree nuts
14	:		:	Legume and grass seeds
	:	13	:	Legume and grass seeds
15	:		:	Sugar and sirup crops
	:	14	:	Sugar and sirup crops
16	:		:	Miscellaneous crops
	:	15	:	Miscellaneous crops
17	:		:	Forest products
	:	16	:	Forest Products
18	:		:	Greenhouse and nursery products
	:	17	:	Greenhouse and nursery products
19	:		:	Total crops
	:	5	:	Food grains
	:	6	:	Feed crops
	:	7	:	Cotton
	:	8	:	Tobacco
	:	9	:	Oil-bearing crops
	:	10	:	Vegetables
	:	11	:	Fruits
	:	12	:	Tree nuts
	:	13	:	Legume and grass seeds
	:	14	:	Sugar and sirup crops
	:	15	:	Miscellaneous crops
	:	16	:	Forest products
	:	17	:	Greenhouse and nursery products
20	:		:	Total agriculture
	:	1 through 17	:	Meat animals through greenhouse and nursery products
21	:		:	Meat animals and products
	:	1	:	Meat animals
	:	4	:	Other livestock and products
22	:		:	Food grains and feed crops
	:	5	:	Food grains
	:	6	:	Feed crops
	:		:	

Continued -

INDUSTRY CLASSIFICATION TABLE--Continued

Row sector	I-0 industry components	Industry title
23		Vegetables and fruits
	10	Vegetables
	11	Fruits
24		All other agriculture
	12 through 17:	Tree nuts through greenhouse and nursery products
25		Agricultural services
	18	Agricultural services
26		Total agriculture including agricultural services
	1 through 18:	Meat animals through agricultural services
27		Bituminous coal
	1210	Bituminous coal
28		Mining of nonmetallic minerals (except fuels)
	1422	Crushed and broken limestone
	1472	Chemical and fertilizer mineral mining
	1475	Phosphate rock
29		Food and kindred products
	2041	Flour and meal
	2042	Prepared animal feeds
	2044	Rice cleaning and polishing
	2062	Cane sugar refining
	2063	Beet sugar
	2082	Malt liquors
	2085	Distilled liquors
	2094	Corn products
30		Textile mill products
	2220	Cotton and rayon textiles
	2297	Jute and cordage
31		Finished textile products
	2393	Textile bags
	2394	Canvas products
32		Wood products
	2440	Wooden containers
	2445	Cooperage
33		Paper products
	2612	Paper and paperboard mills
	2640	Paper products
34		Printing and publishing
	2700	Printing and publishing

Continued -

INDUSTRY CLASSIFICATION TABLE--Continued

Row sector	I-0 industry components	Industry title
35		Chemicals and allied products
	2819	Inorganic chemicals
	2829	Organic chemicals
	2830	Drugs and medicines
	2870	Fertilizers
	2881	Cottonseed oil mills
	2882	Linseed oil mills
	2883	Soybean oil mills
	2885	Marine animal oils
	2886	Grease and tallow
	2897	Insecticides
	2898	Salt
	2899	Chemical products, n.e.c.
36		Petroleum products
	2911	Petroleum refining
37		Rubber products
	3011	Tires and tubes
38		Stone, clay, and glass products
	3221	Glass containers
	3260	Pottery and related products
	3274	Lime
	3295	Minerals, ground or treated
39		Fabricated metal products, except ordnance and transportation equipment
	3411	Tin cans
	3422	Edge tools
	3423	Hand tools, n.e.c.
	3489	Wirework, n.e.c.
	3491	Metal barrels and drums
	9920	Miscellaneous hardware supplies
40		Machinery and parts (except electrical)
	3521	Tractors
	3522	Farm machinery
	3559	Special industrial machinery
	9910	Motor vehicle replacement parts
41		Utilities
	4911	Electric light and power
	4922	Natural gas transmission
	4925	Manufactured gas production and distribution
	4971	Irrigation system operation

Continued -

INDUSTRY CLASSIFICATION TABLE--Continued

Row sector	I-0 industry component	Industry title
42		Margin industries
	N167	Railroad transportation
	N168	Trucking
	N169.1	Warehousing and storage
	N169.3	Stockyards
	N171	Other water transportation
	N173	Air transportation
	N174	Pipeline transportation
	N175.1	Wholesale trade
	N176	Retail trade
	9010	Federal Government
	9020	State and local government
43		Telephone
	N191	Telephone
44		Finance
	N197.1	Nonlife insurance
	N198.3	Real estate agencies
45		Farm nonresidential rents
	N199.2	Farm nonresidential rents
46		Miscellaneous farm business expenses
	N203	Advertising
	N211	Miscellaneous professional services
	9913	Miscellaneous farm business expenses
47		Repair services
	N205	Auto repair services
	N206.4	Miscellaneous repair services
48		Nonprofit membership organizations
	N213	Nonprofit membership organizations
49		Construction
	N244	Construction
		Charges against final demand
50	9100	Foreign trade (noncompetitive imports, foreign port value)
51	9010	Federal Government
52	9020	State and local government
53	9500	Households- a. Wages and salaries, b. Proprietors' incomes, c. All other
54	7700	Gross domestic outlays

Continued -

INDUSTRY CLASSIFICATION TABLE--Continued

Column :	I-0 :	
sector :	industry :	Industry title
number :	components :	
1-26 :	:	All agriculture and agricultural combinations
:	:	including agricultural services. Same as the
:	:	row sector number classification.
27 :	:	Food and kindred products
:	2010 :	Meat packing
:	2015 :	Poultry, wholesale
:	2020 :	Processed dairy products
:	2032 :	Cured fish
:	2033 :	Canning and preserving foods
:	2034 :	Dehydrated fruits and vegetables
:	2035 :	Pickles and sauces
:	2037 :	Frozen foods
:	2041 :	Flour and meal
:	2042 :	Prepared animal feed
:	2043 :	Cereal preparations
:	2044 :	Rice cleaning and polishing
:	2051 :	Bread and other bakery products
:	2052 :	Biscuits, crackers, and pretzels
:	2061 :	Row cane sugar
:	2063 :	Beet sugar
:	2071 :	Confectionery products
:	2072 :	Chocolate, cocoa products
:	2082 :	Malt liquors
:	2083 :	Malt
:	2084 :	Wines and brandy
:	2085 :	Distilled liquors
:	2090 :	Liquid, frozen, and dried eggs
:	2092 :	Shortening and cooking oils
:	2094 :	Corn products
:	2095 :	Flavorings
:	2096 :	Vinegar and cider
:	2099 :	Food preparations, n.e.c.
28 :	:	Tobacco manufactures
:	2111 :	Cigarettes
:	2131 :	Chewing and smoking tobacco
:	2141 :	Tobacco stemming and redrying
:	:	
:	:	

Continued -

INDUSTRY CLASSIFICATION TABLE--Continued

Column sector number	I-0 industry components	Industry title
29		Textile mill products
	2210	Woolen and worsted manufactures
	2220	Cotton and rayon textiles
	2250	Knitting mills
	2271	Wool carpets and rugs
	2293	Paddings and upholstery filling
	2297	Jute and cordage
	2299	Textile goods, n.e.c.
30		Sawmills and planing mills
	2421	Sawmills and planing mills
31		Wood household furniture
	2510	Wood household furniture
32		Pulp mills
	2611	Pulp mills
33		Chemicals and allied products
	2829	Organic chemicals
	2830	Drugs and medicines
	2840	Soaps and related products
	2862	Softwood distillation and gum naval stores
	2865	Natural dyeing and tanning materials
	2870	Fertilizers
	2881	Cottonseed oil mills
	2882	Linseed oil mills
	2883	Soybean oil mills
	2884	Vegetable oil mills, n.e.c.
	2892	Essential oils
	2897	Insecticides
	2899	Chemical products, n.e.c.
34		Leather tanning and finishing
	3111	Leather tanning and finishing
35		Miscellaneous manufactured industries
	3981	Brooms and brushes
	3992	Furs, dressed and dried
36		Transportation
	N167	Railroads
	N170	Ocean transportation
	N173	Air transportation
37		Stockyards
	N169.3	Stockyards
38		Telephone and telegraph
	N191	Telephone
	N192	Telegraph

Continued -

INDUSTRY CLASSIFICATION TABLE--Continued

[illegible]

APPENDIX B

WASTE PRODUCT AND BYPRODUCT ALLOCATIONS, BY INDUSTRIES OF
ORIGIN AND DESTINATION

Producing sector		Receiving sector		Product	Producers value (\$1,000)
Sector : I-0	Sector : I-0	Sector : I-0	Sector : I-0		
No. : No.	No. : No.	No. : No.	No. : No.		
1	1	33	2870	Manure	1,359
		34	3111	Farm hides	20,567
				Total	21,926
7	7	27	2092	Cottonseed	9,508
		33	2881	Cottonseed	230,195
		33	2883	Cottonseed	1,070
		33	2884	Cottonseed	5,521
		43	9300	Cottonseed	1,307
		44	9100	Cottonseed	988
				Total	248,589
29	2041	1	1	Flour and meal screenings	3,772
	2044			Rice mill feeds	147
	2062			Molasses	8,438
	2063			Beet pulp	507
	2094			Gluten meal and hominy	4,043
35	2881			Cottonseed meal	98,184
	2882			Linseed meal	9,200
	2883			Soybean meal	28,865
	2885			Fishmeal	1,935
	2886			Meat scraps and tankage	27,983
				Total	183,074
29	2041	2	2	Flour and meal screenings	6,409
	2044			Rice mill feeds	250
	2094			Gluten meal and hominy	2,271
35	2883			Soybean meal	7,925
				Total	16,855
29	2041	3	3	Flour and meal screenings	15,197
	2044			Rice mill feeds	591
	2062			Molasses	2,109
	2063			Beet pulp	5,827
	2082			Brewers' dry grain	3,163
	2085			Distillers' dry grain	3,845
	2094			Gluten meal and hominy	6,145
35	2881			Cottonseed meal	16,827
	2882			Linseed meal	3,780
	2883			Soybean meal	13,189
	2885			Fishmeal	5,994
				Total	76,667

Continued -

WASTE PRODUCT AND BYPRODUCT ALLOCATIONS, BY INDUSTRIES OF
ORIGIN AND DESTINATION--Continued

Producing sector		Receiving sector		Product	Producers' value (\$1,000)	
Sector No.	I-0 No.	Sector No.	I-0 No.			
29	2041	4	4	Flour and meal screenings	20	
	2044			Rice mill feeds	1	
	2094			Gluten meal and hominy	20	
35	2881			Cottonseed meal	24	
	2882			Linseed meal	9	
	2883			Soybean meal	33	
				Total		107
29	2041	6	5	Flour and meal screenings	224	
	2044			Rice mill feeds	9	
	2094			Gluten meal and hominy	238	
35	2881			Cottonseed meal	296	
	2882			Linseed meal	105	
	2883			Soybean meal	369	
				Total		1,241
29	2041	7	6	Flour and meal screenings	1,203	
	2044			Rice mill feeds	47	
	2094			Gluten meal and hominy	1,287	
35	2881			Cottonseed meal	1,624	
	2882			Linseed meal	570	
	2883			Soybean meal	1,980	
				Total		6,711
29	2041	8	7	Flour and meal screenings	481	
	2044			Rice mill feeds	19	
	2094			Gluten meal and hominy	514	
35	2881			Cottonseed meal	640	
	2882			Linseed meal	227	
	2883			Soybean meal	787	
				Total		2,668
29	2041	9	8	Flour and meal screenings	235	
	2044			Rice mill feeds	9	
	2094			Gluten meal and hominy	253	
35	2881			Cottonseed meal	320	
	2882			Linseed meal	111	
	2883			Soybean meal	391	
				Total		1,319
29	2041	10	9	Flour and meal screenings	112	
	2044			Rice mill feeds	4	
	2094			Gluten meal and hominy	119	
35	2881			Cottonseed meal	142	
	2882			Linseed meal	53	
	2883			Soybean meal	185	
				Total		615

Continued -

WASTE PRODUCT AND BYPRODUCT ALLOCATIONS, BY INDUSTRIES OF
ORIGIN AND DESTINATION--Continued

Producing sector		Receiving sector		Product	Producers' value (\$1,000)	
Sector	I-O	Sector	I-O			
No.	No.	No.	No.			
29	2041	11	10	Flour and meal screenings	154	
	2044			Rice mill feeds	6	
	2094			Gluten meal and hominy	165	
35	2881			Cottonseed meal	201	
	2882			Linseed meal	71	
	2883			Soybean meal	255	
				Total		852
29	2041	12	11	Flour and meal screenings	38	
	2044			Rice mill feeds	2	
	2094			Gluten meal and hominy	42	
35	2881			Cottonseed meal	53	
	2882			Linseed meal	18	
	2883			Soybean meal	64	
				Total		217
29	2041	13	12	Flour and meal screenings	4	
	2094			Gluten meal and hominy	4	
35	2881			Cottonseed meal	6	
	2882			Linseed meal	2	
	2883			Soybean meal	7	
				Total		23
29	2041	14	13	Flour and meal screenings	34	
	2044			Rice mill feeds	1	
	2094			Gluten meal and hominy	35	
35	2881			Cottonseed meal	47	
	2882			Linseed meal	16	
	2883			Soybean meal	54	
				Total		187
29	2041	15	14	Flour and meal screenings	36	
	2044			Rice mill feeds	1	
	2094			Gluten meal and hominy	40	
35	2881			Cottonseed meal	47	
	2882			Linseed meal	17	
	2883			Soybean meal	60	
				Total		201
29	2041	16	15	Flour and meal screenings	3	
	2094			Gluten meal and hominy	3	
35	2882			Linseed meal	1	
	2883			Soybean meal	5	
				Total		12

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WASTE PRODUCT AND BYPRODUCT ALLOCATIONS, BY INDUSTRIES OF
ORIGIN AND DESTINATION--Continued

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